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ASHTABULA, OHIO, SATURDAY, MARCH 1, 1873.

THE LOST ARTS. The Now York Tribune's report of Wendell Philip's perhaps most famous and popular lecture, entitled, "The Lost Aris;"

I have been somewhat criticised, year after year, for this endeavor to open up the claims of old times. I have been charged with repeating useless fables with no foundation. To-day, I take the mere subject of glass. This material, Pliny says, was discovered by accident; that some sailors, landing on the eastern coast of Spain, took their cooking uten-sils and supported them on the sand by the stones that they found in the neigh-borhood: they had kindled their fire, cooked their fish, finished their meal and removed the apparatus, and glass was found to have resulted from the niter and sea-sand, vitrified by the heat.— Well! I have been a dozen times criticised by a number of wise men, in newsvery idle tale, that there never was sufficient heat in a few bundles of sticks to the Black Sea. If this were my topic, produce vitrication-glass making. I happened two years ago, to meet on the prairies of Missouri Prof. Shepherd, who respectable old age. Take Maria Edgestarted from Yale College, and, like a worth's on Irish bulls and the laughable genuiue Yankee, brings up anywhere mistakes of the Irish. Even the tale life would have freed men from that lows ; doubt." Said be: "We stopped last year in Mexico to cook some venison. We got down from our saddles and put the cooking apparatus on stones we found there, made our fire with the wood we got there, resembling abony, and when we removed the apparatus there was pure silver gotten out of the embers by

materials of glass." Why not suppose that Pliny's sailors had lighted on some exceedingly hot wood. May it not be as possible as in this case? So ladies, and gentlemen, with a growing habit of distrust of a large share of this modern and exceedingly scientific criticism of ancient records, I think we have been betraying our own ignorance and that frequently, when the statement does not look on the face of it to be exactly accurate, a little investigation be low the surface will show that it rests on a real truth. Take for instance, the English proverb, which was often quoted in my college days. We used to think how little logic the common people had and when we wanted to illustrate this in the school-room, it was what was called a "non-sequitur"-the effect did not come from the cause named. We always quoted the English proverb: "Tenterden's steeple is the cause of Goodwin Sands." We said: "How ignorant a population! But when we went deeper into the history we found that the proverb was not meant for logic but meant for sarcasm. One of the bishops had which Mr. Froude describes in his led ture that the world would be better if Providence would remove them from it -instead of building breakwater to keep out the sea simply built a steeple; and this proverb was sartistic and not logical, that "Tenterden's steeple was the

cause of the Goodwin Sands.' When you contemplate the motive, there was the closest and most welded PULLMAN'S best Drawing-room and logic in the proverb. So I think a large share of our criticism of old legende and old statements will be found in the end to be the ignorance that overleaps its own saddle and falls on the other

MASTER ARTISTS INIMITABLE

Well my first illustration ought to be this material, glass; but, before I procred to talk of these Lost Aarts I ought in fairness to make an exception, and it is the conception or conceit which lies here. Over a very large section of literature there is a single contradiction to this sweltering conceit that there are certain lines in which the modern are ill satisfied with themselves and contented to acknowledge that they ought fairly to sit down at the feet of their predeces-

The poetry painting, sculpture, architecture, the drams, and almost everything in words of any form that relates to beauty; with regard to that whole sweep, the modern world, gilds it with its admiration of the beautiful. Take the very phrases that we use. The artist says he wishes to go to Rome. "For what?" "To study the masters." Well all the masters have been in their graves several bundred years. We are all pu- be called by the name of glass; that pils. You tell the poet, 'Sir, that line of your's would remind one of Homer," and he is crazy. Stand in front of a painting, in the hearing of the artist, and orated it. compare its coloring to that of Titian or Rapael, and he remembers you forever. I remember once standing in front of a bit of marble carved by Powers, a Vermonter, who had a matchless, instinctive love of art and perception of beauty. I said to an Italian standing with me Well, now, that seem to me to be per-The answer was: "To perfection," shrugging his shoulders : Why, Sir, that reminds you of Phidias;" as it to remind you of that Greek was a greater comment than to be per-

ALL MEN BORROWERS.

Well, now the very choicest of phrases petrays a confession of inferiority, and you see it again creeps out in the amount we borrow. Take the whole range of magicative literature and we are all wholesate borrowers. In every matter which I have to offer you, are simply that relates to invention-to use, of beauty, or form we are borrowers. You clance around the furniture of the palaces in Europe, and may gather all utensils of art or use, and when you have fixed the shape and forms in your mind, I will take you into the Museum of Nuples, which gathers all remains of the domestic life of Romans, and you shall not find a single one of these modern forms of beauty or use, that was not anticipated there. We have hardly added one single line or sweep of beauty to the

Take the stories of Shakespeare, who

has, perhaps, written his forty odd plays. Some are historical. These he elatehed ready-made for his hand, from the Italslipper is older than all bistory, like make them, but stole them.

The second story; of half a dozen, certainly five relates to the age of Tiberies side, and it is stained with Tyrian purple

All the boy's plays, like everything ed to Rome, bringing a wonderful cup. after a thousand years. So the Tyrian that amuses the child in the open air, are Bulwer borrowed the incidents of his Ro shape again. It was brilliant, transpar- the ashes this color flames up upon you, been 250 or 300 distinct stories. He and say that he was familliar with most papers, who have said that this was a says at least 200 of these may be traced, of my facts, but speaking of malleable before Christianity, to the other side of glass, he had this to say that it was buried beneath the earth 1,500 years which it is not, I migt tell you that even where there is anything to do. I which either Maria Edgeworth or her happened to mention this criticism to father thought the best is that famous got from the Arabians malleable glass. "Well," says he "a little practical story of a man writing a letter as fol-

word you have written.")
This is an Irish bull, still it is a very pure silver gotten out of the embers by old one. It is only 250 years older tured into cloth, the intense heat of that almost iron than the New Testament. Horace Walwood. "Now," said he, "that heat was pole diseated from Richard Lovell Edgegreater than any necessary to vitrify the worth and thought the other Irish bull Greeks stole it from the Egyptian hund- colored hues of the neck, and which even reds of years back.

GREEK JOKES IN THEIR DOTAGE.

There is one story which it is said Washington has related of a man who went into an inn and asked for a glass of the annealing process, because that proward a wine-glass about half the usual size-the teacups in that day were not more than half the present size. The landlord said, "That glass out of which you are drinking is 40 years old."
"Well," said the thirsty traveler, contemplating its diminutive proportions, "I think it is the smallest thing I ever saw." That story as told is given as a

Greek-every one of them. Take an Irishman who carried around 50,000 pounds given to him to build a to sell ; take the Irishman who shut his der a dove's wing and sent into Paris, man," "I suppose you see I'm not." "Oh! to look down to the center of a six-acre no," says he, "I would believe the man lot, was to look a considerable distance. who told me a good deal quicker than I would you." Well! those are all paralell character, come from Athens.

They little imagined that when Richard ed each other to amuse the people-more Cour de Lion set out on one of his Cru- closely than with the naked eye. So sades, among the orders he issued to his Nero had an opera glass. So Mauritius camp of soldiers was that any one who the Sicilian, stood on the promontory of eathered.

Many a man who lived in Conncticut has repeated the story of taking children to the limits of the town and giving them a sound thrashing to enforce their mem-ory of the spot. But the Burgudians in France, in a law now 1,100 years old, attributed valor to the east of France because it had a law that the children should be taken to the limits of the district, and there soundly whipped in order that they may forever remember where the limits came.

So we have very few things in that line. But I said I would take the subject for instance, of this very material—very substance—glass. It is the very best expression of man's self-conceit.

TEACHINGS FROM GLASS. I had heard that nothing had been observed in ancient times which could not there had been merely attempts to imitate it. I thought that they had proved the proposition; they certainly had elab-

In Tompeii, a dozen miles south of Na ples, which was covered with ashes by Vesavius 1800 years ago they broke into a room full of glass; there is ground-glass, window-glass, cut-glass and colored glass of every variety. It was undoubtedly a glass-maker's facrory. So the lie and the refutation came face to face. It was like a pamphlet printed in London in 1836, Dr. Lardner, which proved that a steamboat could not cross the ocean, and the book came to this county in the first steamboat that came scross the Atlantic.

inan novelists, who had taken them be- in some of their scientific discoveries we fore from the East. Cinderella and her have found evidence that they did not culty with the Tyrian purple. The

enough to tell us from wheree they first the time of St. Paul, and tells of a Roman who had been banished and who return- never can rely upon the name of a color Asiatic. Rawlinson will show you that pavement and it was crushed, not broken of these curtains. This is a city of all they came somewhere from the banks of by the fall. It was dented some, and red. It had been buried 1,700 years, and the Ganges or the suburbs of Damascus, with a hammer he easily brought it into if you take a shovel now and clear away man stories, from legends of a thousand ent, but not brittle. I had a wine-glass a great deal richer than anything we can years before. Indeed Dunlop, who has when I made this talk in New Haven, produce. grouped the history of the novels of all and among the andience was the owner, grouped the history of the novels of all and among the andience was the owner. You can go down into the narrow Europe into one essay, says that in the Prof. Silliman. He was kind enough to vault which Nero built him as a retreat nations of modern Europe there have come to the platform when I had ended, nearly a natural impossibility, and that no amount of evidence which could be brought would make him credit it.

Well, the Romans got their chemistry from the Arabians; they brought it into Spain eight centuries ago, and in their books of that age they claim, that they "My DEAR FRIEND: I would write weight in 20 hours would dwindle down you more in detail, more minutely, if to a fine line and that you could carve it there was not an impudent fellew look. around your wrist. Von Beust-the ing over my shoulder reading every Chancellor of Austria-has ordered seword." ("No, you lie--Iv'e not read a creey in Hangary in regard to a recently discovered process by which glass can be used exactly like wool, and manufac-

There are a few records. When you go to Rome they will show you a bit of glass like the solid rim of this tumblerwas the best-of the man who said : "I a transparent glass, a solid thing which would have been a very handsome man, they lift up so as to show you that there but they changed me in the cradle."— is nothing concealed, but in the center Spanish, Cervantes borrowed it from the perhaps as large as a pea, mottled like a a miniature pencil could not do more perfectly. It is manifest that this drop of liquid glass must have been poured, because there is no joint. This must cess shows breaks.

EXCELLENCE PER SE. Cicero said that he had seen the entire Iliad, which is a poem as large as the New Testament, written on skin so that it could be rolled up in the compass of a nut-shell. Now this is imperceptible to the ordinary eye, You have seen the Declaration of Independence in the comstory of Athens 375 years before Christ pass of a quarter of a dollar, written was born. Why! all these Irish bulls are with glasses. I have to-day a paper at with glasses. I have to-day a paper at home as long as half my hand, on which was photographed the whole contents a brick as a specimen of the house he had of a London newspaper. It was put unbreakwater to save the Goodwin Sands eyes and looked into the glass to see where they enlarged it and read the tal eye is better than even that of France from the advancing sea, but the good how he would look after he was dead; bishop—being one of the kind of bishops take the Irishman that bought a crow, been made by some such process. In alleging that crows were reported to the Roman theater-the Coliseum. live 200 years, and he meant to set out which could seat 100,000 people-the and try it; take the Irishman that met a Emporer's box, raised to the highest tier friend who said to him, "Why, Sir, I bore about the same proportion to the heard you were dead." "Well says the space as this stand does to this hall, and

> Considerable, by the way, is not Well ! those are all Yankee word. Lord Chesterfield uses it Greek. A score or more of them, of in his letters to his son, so it has a good English origin. Plunny says that Nero, Our old Boston patriots felt that tar- the tyrant, had a ring with a gem in ing and feathering a Tory was a genu- which he looked through and watched the ne patent Yankee firebrand-Yankeeism. | sword play of gladiators-men who killrobbed a hen-roost should be tarred and his island and could sweep over the entire sea to the coast of Africa with his nauscopite, which is a word derived from two Greek words, meaning to see a ship. Evidently Mauritius, who was a pirate, had a marine telescope. You may visit Dr. Abbot's museum, where you will see the ring of Cheopt. Bunsen pats him at 500 years before Christ. The signet of the ring is about the size of a quarter of a dollar, and the engraving is invisible without the aid of glasses. No man was ever shown into the cabinets of gems in Italy without being furnished with a mi croscope to look at them. It would be idle for him to look at these without one. He appreciates the delicate lines and the expression of the face. If you go to Parma they will show you a gem once worn on the finger of Michael Angelo, of which the engraving is 2,000 years old on which there are the figures of seven women. You must have the aid of a glass in order to distinguish the forms at all. I have a friend who has a ring, perhaps three-quarters of an inch in diameter and on it is the naked figure of the god Hercules. By the aid of the glasses you can distinguish the interlacing musdes, and count every separate hair on

the eyebrows.

Layard says he would be unable to read the engravings on Ninevah without strong spectacles, they are so extremely small. Rawlinson brought home a stone about twenty inches long and ten wide containing an entire treatise on mathematics. It would be perfectly illegible without glasses. Now, if we were unable to read it without the aid of glasses. you may suppose the man who engraved

is the hardest for us. They had no diffi--the royal color of antiquity. But you

from the great heat, and you will find the walls painted all over with fanciful designs in arabesque, which have been but when the peasants light it up with their torches the colors flash out before you as Iresh as they were in the days of St. Paul.

Your fellow-citizen, Mr. Page, spent twelve years in Venice, studying Titian's method of mixing his colors, and he thinks he has got it. Yet come down from There is a kind of glass spoken of there Titian, whose colors are wonderfully and that, if supported by one end, by its own perfectly fresh, to Sir Joshua Reynolds, and although his colors are not yet a hun-dred years old, they are fading; the colors on his lips are dying out, and the cheeks are losing their tints. He did not know how to mix well.

All this mastery of color is as yet unequaled. If you should go with that most delightful of all lecturers, Prof. Tyndall, be would show you in the spec-trum the vanishing rays of violet, and prove to you that beyond their limit here are rays still more delicate and to you invisible, but which he, by chemical paper, will make visible; and he will tell; That comes from Don Quixote, and is of the glass is a drop of colored glass, you that probably, though you see three Spanish, Cervantes borrowed it from the Greeks in the fourth century, and the duck, finely mottled with the shifting your predecessors did, yet 300 years after our successors will surpass our limit,

The French bave a theory, that there is a certain delicate shade of blue that Europeans cannot see. In one of his lectures to his students, Ruskin opened is Catholic mass book and said: lemen, we are the best chemists in the world-no Englishman ever could doubt hat-but we cannot make such a scarlet is that, and even if we could it would not last twenty years. Yet this is 500 venrs ago!"

The Frenchman says : "I am the best lyer in Europe; nobody can equal me, nd nobody can surpass Lyons," in Cashmere, where the girls make shawls worth \$70,000, they will show him 300 listinct colors, which he not only cannot make but cannot even distinguish. When I was in Rome, if a lady wished to wear a half dozen colors at a masquerade, and have them all in harmony, she would go to the Jews, for the Orien-

ANCIENT MASTER ARTISANS. Taking the metals, the Bible in its first chapters showed that man first conquered metals there in Asia, and the wonder is that on that spot to-day he ean work more wonders with those met-

als than we can.
One of the surprises that the European artists received when the English plandered the Summer Palace of the King of China, was the curiously wrought metal vessels of every kind, far exceeding all the boasted skill of the workmen of Eu-

first week he landed in Asia, found that his chronometer was out of order from the steel of the works having become rusted. The London Medical and Surgical Journal advises surgeons not to venture to carry any lancets to Calcutta, to have them gilded, because English steel could not bear the atmosphere of ago. There was one at the London Exhibition, the point of which could be made to touch the hilt, and which could be put into a scabbard like a cork-screw and bent every way without breaking, like an American politician. Now, the wonder of this is, that perfect steel is a 1 have evidence of science. If a London chrospearance 2,000 years before, why work I tell you this fact to show that peruse in his chronometer, he does not send to Sheffield, the center of all science, but The first needle ever made in England

was made in the time of Harry the VIII, and made by a negro, and when he died the art died with him. Some of the first travelers in Africa stated that they found | ization from royalty and priesthood. a tribe in the interior who gave them better razors than they had, the irrepressible negro coming up in science as in politics. The best steel is the greatest triumph of metallurgy, and metallurgy is the glory of chemistry.

The poets have celebrated the

ed as the finest by Moore, Byron, Scott, Southey, and many others. I have even heard a young advocate of the lost arts find an argument in Byron's "Sennacherib" from the fact that the mail of the warriors in that one short night had The chemistry of the most accient period had reached a point to which we invain struggle to reach to-day. Indeed the whole management of the effect of tight on glass, is still a matter of profound atudy. The first two stories which I have to offer you, are simply stories from history.

The first two stories and or manent to gratify the eye; but the Egyptians impressed it into a new service. For them it was a method of the first was the example of the place of the end of the place of the stories from history.

The first two stories and or manent to gratify the eye; but the Egyptians impressed it into a new service. For them it was a method of the was filled with a filled w rusted before the trembling Jews stole out in the morning to behold the teenth century, and of the hundreds of things

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EGYPT'S MECHANICAL MARVELS Taking their employment of the melarge masses from the earth, we know that they had the five, seven, or three mechanical powers but we cannot socount for the multiplication and increase necessary to perform the wonders they accomplished.

In Boston, lately, we have moved the Pelham Hotel, weighing 50,000 tons, 13 feet, and are very proud of it, and since then we moved a whole block of houses 22 feet, and I have no doubt we will write a book about it; but there is a book telling how Dominico Fontana of the sixteenth century set up the Egyptian obelisk at Rome on end in the Papacy of Sixtus V. Wonderful! Yet the Egyptians quarried that stone and carit 150 miles, and the Romans brought it 750 miles, and never said & word about it.

Mr. Batterson of Hartford, walking with Brunel, the architect of the Thames tunnel, in Egypt, asked him what he thought of the mechanical power of the Egyptians, and he said, "There is Pompey's Pillar; it is 100 feet high, and the capital weighs 2,000 pounds. It is someng of a feat to hang 2,000 pounds at that hight in the air, and the few men that can do it would better discuss Egyptian mechanics,"

Take canals, for instance. The Snez Canal absorbs half its receipts in cleaning out the sand which fills it continuals y, and it is not yet known whether it is a canal at right angles to ours, because hey knew it would not fill up it built in that direction, and they knew such an one as ours would. There were magnifieent canals in the land of the Jews, with perfectly arranged gates and sluices.
We have only just begun to understand ventilation properly for our houses; yet late experiments at the Pyramids in Egypt show that those Egyptian tombe were ventilated in the most perfect and cientific manner.

Again, cement is modern, for the aucients dressed and jointed their stones so closely that in buildings thousands of years old the thin blade of a pen-knite cannot be forced between them. The railroad dates back to Egypt. Arago has claimed that they had a knowledge of steam. A painting has been discovered of a ship full of machinery, and French engineer said that the arrangement of this machinery could only be accounted for by supposing the motive power to have been steam. Brahma so-knowledges that he took the idea of his celebrated lock from an ancient Egyptian pattern. De Tocqueville says there was to social question that was not discussed

to rags in Egypt.

OLD HINTS OF NEW THINGS.

"Well," say you, "Franklin invented the lightning rod." I have no doubt he did; but years before his invention, and before muskets were invented, the old soldiers on guard on the tower, used Franklin's invention to ke guard with; and if a spark passed betwee them and the spear-head they ran and be the warning of the state and condition affairs.

After that you will admit that Benjamin After that you will admit that Benjamin Franklin was not the only one that knew of the presence of electricity, and the advantages derived from its use. Solomon's temple, you will find, was situated on an exposed point of the hill; the temple was so lofty that it was often in peril, and was goarded by a system exactly like that of Benjamin Franklin's.

Well, I may tell you a little of sncient manufactures. The Duchess of Burgundy took a necklace from the neck of a mummy and wore it to a ball given at the Tuileries, and everybody said they thought it was the newest ed the Estruscare, and the Italians spent their lives in trying to find out the secret; and it has come down to us and our day, and we do not know either.

The old no sels of Walter Scott were three

thousand years before the popular tales of Eastern Asia. Russell Lowell says: "There was a town in Vermont so corrupt that the inhabitants had to sleep in the walts at night." India. Yet the Damascus blades of the Well, he had this opinion. A Hindoo princess Crusades were not gilded, and they are came into court, and her father seeing her as perfect as they were eight centuries said: "Go home, you are not decently covered ago. There was one at the Lordon Fr. —go home;" and she said: "Father, I bave seven suits on;" but the suits were of muslin, so thin that the king could see through them. A Roman poet says; "The girl was in the poetic dress of the country." I fancy the French would be rather astonished at this. wonder of this is, that perfect steel is a I have evidence to show that it made its ap-

haps we don't invent just everything. Why did I think to grope in the ashes for this? Because all Egypt knew the secret, which was to the Panjaub, the empire of the seven not the knowledge of the professor, the king and the priest. Their knowledge won an historic privilege which separated them from the masses; and this chain was broken when Cambyses came down from Persia, and by his genius and intellect opened the gates of knowledge, thundering across Egypt, drawing civil-

MODERN KNOWLEDGE UTILIZED. Such was the system which was established

fore humanity took this subject to a proper consideration, and when this consideration was made, civilization changed her cherater. Learning no longer hid in a convent of slum-bered in the Paisce. No! she came out join-ing bands with the people, ministering and tion of Oriental steel, and it is recognizwith them.
We have not astrology in the stars, acrying

only kings and priests; we have an astrology serving all those around us. We have not a chemistry hidden in under ground cells, atriving for wealth, striving to turn everything in-to gold. No, we have a chemistry laboring with the farmer, and digging gold out of the